

CUMULATIVE ELECTRONICS ABSTRACTS

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reports and patents published
on electronic subjects
from 1957 through 1964

SUBJECT CATEGORIES

Devices

- 1 VACUUM AND GAS TUBES***
(Theory, Characteristics, Fabrication, Measurement)
- 2 SEMICONDUCTOR DIODES AND TRANSISTORS**
(Theory, Characteristics, Fabrication, Measurement)
- 3 MASERS AND LASERS**
(Theory, Characteristics, Fabrication, Measurement, Applications)
- 4 OPTICAL, THERMAL AND MAGNETIC DEVICES**
(Photoconductive, Photoelectric and Photovoltaic Devices, Photodiodes and Phototransistors; Thermistors, Thermoelectric Devices; Isolators, Phase Shifters, Circulators, Magnetic Amplifiers, Logic Elements, etc.)
- 5 THIN FILMS**
(Growth, Structure, Electrical Properties, Magnetic Properties, Optical Properties, Thin Film Devices and Circuits)

Circuits

- 6 CIRCUIT THEORY***
(Including Filters and Other Passive Circuits)
- 7 MICROELECTRONICS**
(Theory and Design, Characteristics, Fabrication, Types, Functions, Applications)

8 AMPLIFIERS, OSCILLATORS AND WAVEFORM GENERATORS

(Theory and Design, Analysis, Stabilization, Classification by Frequency, Function, Mode of Operation, Active Element, etc.; Excluding Masers and Lasers)

9 SWITCHES, CONVERTERS AND PULSE CIRCUITS

(Including Modulators, Detectors, Frequency and Power Converters)

Systems

10 COMMUNICATIONS

(Including Communication Theory, Information Theory, Radio, Television, Telephony, Telegraphy, Radar, Telemetry, Microwaves)

11 CONTROL AND INSTRUMENTATION*

(Including Automatic Control Theory, Feedback Systems, Sampled Data Control Systems, Servomechanisms, Cybernetics, Industrial Electronics; Meters, Nuclear Instrumentation, etc.)

12 COMPUTER ELECTRONICS

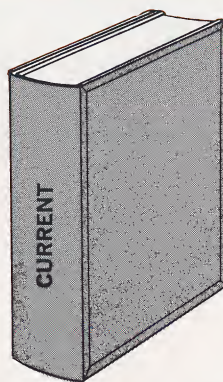
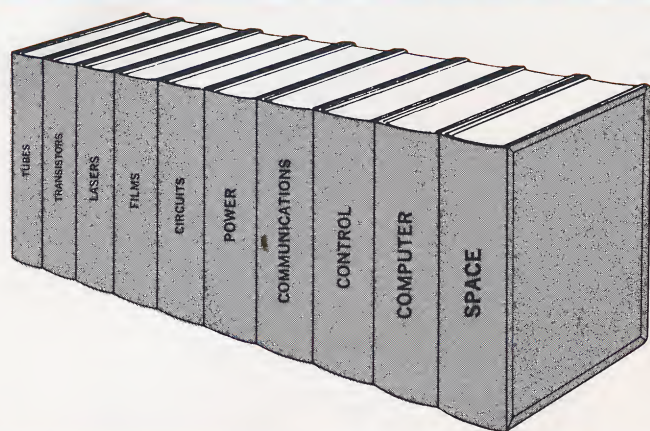
(Including Logic and Switching Theory, Digital Computers and Systems, Computer Devices and Circuits, Storage and Input-Output, Analog and Hybrid Computers, Real-Time Systems)

13 SPACE ELECTRONICS

(Including Electrical Power, Guidance and Control, Environmental Control, Communication, and Instrumentation Subsystems)

14 POWER*

*in preparation



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METALLURGY

Solid State Chemistry*

- ☐ Solid State Compounds*
- ☐ Solid State Reactions*
- ☐ Surface Chemistry
- ☐ Specific Materials*

Phase Properties

- ☐ Analysis of Alloys
- ☐ Phase Diagrams
- ☐ Changes of State
- ☐ Phase Transformations
- ☐ Structure of Alloys
- ☐ Solubility in Solids
- ☐ Segregation
 - ☐ Zone Melting and Refining
- ☐ Specific Materials*

Crystal Growth

- ☐ Theory
- ☐ Equipment
- ☐ Special Properties
- ☐ Solution Growth
- ☐ Melt Growth
 - ☐ Crystal Pulling
 - ☐ Zone Melting
 - ☐ Melt Cooling
- ☐ Vapor Growth
- ☐ Solid State Growth
- ☐ Fusion Growth
- ☐ HT-HP Growth
- ☐ Growth of Films
- ☐ Growth of Whiskers
- ☐ Specific Materials

Crystal Structure

- ☐ Theory
- ☐ Analysis
- ☐ Crystal Lattices
- ☐ Order-Disorder
- ☐ Structure of Surfaces
- ☐ Structure of Films
- ☐ Structure of Whiskers
- ☐ Specific Materials*

Crystal Defects

- ☐ Theory
- ☐ Analysis
- ☐ Generation
- ☐ Vacancies
 - ☐ Color Centers
- ☐ Interstitials
- ☐ Dislocations
- ☐ Grain Boundaries
- ☐ Stacking Faults
- ☐ Specific Materials*

Crystal Impurities

- ☐ Analysis
- ☐ Purification
- ☐ Doping
- ☐ Diffusion
- ☐ Interactions
- ☐ Specific Materials*

Crystal Surfaces

- ☐ Surface Structure
- ☐ Surface Chemistry
 - ☐ Oxidation
 - ☐ Sorption
- ☐ Machining
- ☐ Etching
- ☐ Cleaning
- ☐ Coatings and Attachments
 - ☐ Plating
 - ☐ Alloying
- ☐ Specific Materials*

* in preparation

Environmental Effects

- ☐ Heat Treatment
- ☐ Deformation
- ☐ Radiation
 - ☐ Neutrons
 - ☐ Electrons
 - ☐ Ions
 - ☐ X-Rays
- ☐ Ambient Atmosphere
- ☐ Specific Materials*

PHYSICS

Crystal Physics

- ☐ Electronic Properties
- ☐ Binding Properties
- ☐ Energy Band Structure
- ☐ Lattice Vibrations (Phonons)
- ☐ Specific Materials*

Dielectrics

- ☐ Dielectric Constant
- ☐ Charge and Current; Loss
- ☐ Ferroelectricity
 - ☐ Ferroelectric Domains
 - ☐ Ferroelectric Devices
- ☐ Piezoelectricity
 - ☐ Piezoelectric Devices
- ☐ Electrostriction
 - ☐ Electrostrictive Devices
- ☐ Dielectric Films
- ☐ Specific Materials*
- ☐ Dielectric Devices

Carrier Properties

- ☐ Electrons, Holes and Excitons
- ☐ Donors and Acceptors
- ☐ Concentrations
- ☐ Generation
- ☐ Recombination (Lifetime)
 - ☐ Traps
- ☐ Effective Mass
- ☐ Scattering
- ☐ Mobility
- ☐ Diffusion
- ☐ Injection, Extraction and Storage
- ☐ Spin Resonance
- ☐ Specific Materials*

Conductivity (Resistivity)

- ☐ Theory
- ☐ Measurement
- ☐ Parameter Effects
 - ☐ Piezoresistivity
- ☐ Rectification
- ☐ Breakdown
- ☐ Surface Conductivity
- ☐ Tunneling
- ☐ Connections
- ☐ Noise
- ☐ Thin Films
- ☐ Specific Materials*

Superconductivity

- ☐ Theory
- ☐ Energy Gap
- ☐ Transitions
- ☐ Thin Films
- ☐ Specific Materials*
- ☐ Superconductive Devices

Ferro- & Ferrimagnetism

- ☐ Theory
 - ☐ Exchange Processes
 - ☐ Spin Waves
- ☐ Measurement
- ☐ Spontaneous Magnetization
- ☐ Induced Magnetization
- ☐ Magnetization Reversal
- ☐ Barkhausen Effect

- ☐ Einstein-deHaas Effect
- ☐ Thermomagnetic Effect
- ☐ Hysteresis
 - ☐ Coercive Force
 - ☐ Remanence
 - ☐ Hysteresis Loss
- ☐ Magnetic Anisotropy
- ☐ Magnetic Structure
- ☐ Magnetic Domains
- ☐ Resonance
- ☐ Antiferro(i)magnetism
- ☐ Thin Films
- ☐ Specific Materials*
- ☐ Ferro(i)magnetic Devices

Paramagnetism

- ☐ Susceptibility
- ☐ Paramagnetic Resonance
 - ☐ Specific Ions

Resonance

- ☐ Ferro(i)magnetic
- ☐ Antiferro(i)magnetic
- ☐ Paramagnetic
 - ☐ ENDOR
- ☐ Nuclear Magnetic
 - ☐ Proton
- ☐ Nuclear Quadrupole
- ☐ Specific Materials*

Crystal (Ligand) Fields*

- ☐ Specific Materials*

Optical Properties

- ☐ Spectroscopy
- ☐ Absorption (Transmission)
 - ☐ Filters
- ☐ Radiation
- ☐ Luminescence
 - ☐ Electroluminescence
 - ☐ Fluorescence
- ☐ Mössbauer Effect
- ☐ Photoconductivity
 - ☐ Photoconductive Devices
- ☐ Photovoltaic Effect
 - ☐ Photovoltaic Devices
- ☐ Photoelectric Effect*
 - ☐ Photoelectric Devices*
- ☐ Photomagnetic Effect
- ☐ Reflection
- ☐ Refraction
- ☐ Lenses*
- ☐ Polarization
 - ☐ Faraday Effect
 - ☐ Kerr Effect
 - ☐ Optical Activity
- ☐ Thin Films
- ☐ Specific Materials*

Magnetoelectricity

- ☐ Magnetoresistance
 - ☐ Magnetoresistive Devices
- ☐ Hall Effect
 - ☐ Hall Effect Devices
- ☐ Cyclotron Resonance
- ☐ Spin Resonance
- ☐ Acoustomagnetoelectric Effect
- ☐ Plasmas*
- ☐ Corbino Disks
- ☐ Specific Materials*
- ☐ Magnetoelectric Devices

Thermal Properties

- ☐ Thermal Expansion
- ☐ Specific Heat
- ☐ Thermal Conductivity
- ☐ Thermoelectricity
 - ☐ Thermoelectric Devices
- ☐ Thermomagnetism
- ☐ Specific Materials*

Mechanical Properties

- ☐ Elasticity
- ☐ Plasticity (Creep)
- ☐ Fracture
- ☐ Hardness (Brittleness)
- ☐ Ultrasonic Properties
- ☐ Internal Friction
- ☐ Specific Materials*

Surfaces

- ☐ Chemistry
- ☐ Structure
- ☐ Processing
 - ☐ Etching
- ☐ States (Energy Levels)
- ☐ Field Effect
- ☐ Conductance (Channels)
- ☐ Mobility & Breakdown
- ☐ Barriers (Inversion Layers)
- ☐ Thermionic Emission*
- ☐ Photoemission*
- ☐ Secondary Emission*
- ☐ Field Emission*
- ☐ Specific Materials*

Thin Films

- ☐ Growth
- ☐ Structure
- ☐ Environmental Effects
- ☐ Magnetic Properties
- ☐ Optical Properties
- ☐ Thermal Properties
- ☐ Mechanical Properties
- ☐ Devices
- ☐ Microelectronics*
- ☐ Specific Materials*

Measurement Methods*

- ☐ Metallographic*
- ☐ Radiation*
 - ☐ X-Ray*
 - ☐ Electron*
 - ☐ Neutron*
- ☐ Electrical*
 - ☐ Resistivity*
 - ☐ Hall Effect*
 - ☐ Cyclotron Resonance*
- ☐ Magnetic*
 - ☐ ESR*
 - ☐ NMR*
 - ☐ deHaas-van Alphen*
- ☐ Optical*
 - ☐ Spectrographic*
 - ☐ Mössbauer*
- ☐ Thermal*
- ☐ Mechanical*
 - ☐ Ultrasonic*
 - ☐ Internal Friction*

ELECTRONIC DEVICES

Electron Tubes*

- ☐ Vacuum Diodes*
- ☐ Vacuum Grid Tubes*
- ☐ Gas Grid Tubes*
 - ☐ Thyratrons*
- ☐ Ignitrons*
- ☐ Electron Beam Tubes*
 - ☐ Cathode Ray Tubes*
 - ☐ Camera Tubes*
- ☐ Traveling Wave Tubes*
- ☐ Magnetrons & Klystrons*
- ☐ Counting Tubes*
- ☐ Phototubes*

Semiconductor Diodes

- ☐ Point Contact
- ☐ Junction
 - ☐ Tunnel Devices
- ☐ Surface Barrier

and return to CCC after filling out the form on last page

- ___ Metal Film
- ___ MOS Devices
- ___ Field Effect
- ___ Controlled Rectifiers
- ___ Photodiodes
- ___ Diode Lasers
- ___ Measurements
- ___ Reliability
- ___ Functions
 - ___ Rectifiers
 - ___ Detectors
 - ___ Mixers
 - ___ Switches
 - ___ Voltage Regulators
 - ___ Varactors

Transistors

- ___ Point Contact
- ___ Junction
 - ___ Characteristics
 - ___ Fabrication
- ___ Surface Barrier
- ___ Field Effect
- ___ Metal Film
- ___ Phototransistors
- ___ Measurements
- ___ Reliability
- ___ Functions

Photodevices

- ___ Photoconductive
- ___ Photodiodes
 - ___ Solar Cells
- ___ Phototransistors
- ___ Photovoltaic*
- ___ Photoemissive*
- ___ Luminescent
- ___ Lasers
- ___ Energy Converters
- ___ Radiation Detectors
- ___ Other

Masers and Lasers

- ___ Theory
- ___ Solid State
- ___ Diode
- ___ Gas
- ___ Liquid
- ___ Hybrid

Thermal Devices

- ___ Thermistors
- ___ Thermoelectric Devices
- ___ Bolometers*
- ___ Heat Pumps*
- ___ Other

Magnetic Devices

- ___ Attenuators
- ___ Isolators
- ___ Phase Shifters
- ___ Circulators (Duplexers)
- ___ Amplifiers
- ___ Logic Elements
- ___ Other

Dielectric (Ferroelectric) Devices

- ___ Capacitors
- ___ Transducers
- ___ Memory Cells
- ___ Amplifiers
- ___ Other

Cryogenic Devices

- ___ Cryotrons
- ___ Crowe Cells
- ___ Cryosars
- ___ Solenoids
- ___ Other

Electromechanical Devices

- ___ Piezoresistive
- ___ Piezoelectric
- ___ Electrostrictive
- ___ Other

Other Devices

- ___ Resistors
- ___ Inductors
- ___ Symmetrical Varistors
- ___ Magnetostrictive Devices
- ___ Delay Lines
- ___ Phase Shifters
- ___ Attenuators
- ___ Isolators
- ___ Circulators
- ___ Other

ELECTRONICS

Basic Circuits

- ___ Circuit (Network) Theory*
 - ___ Filters*
- ___ Microelectronics*
- ___ Amplifiers
 - ___ Parametric Amplifiers
- ___ Oscillators
- ___ Switching Circuits
- ___ Signal Converters
 - ___ Modulators
 - ___ Detectors
 - ___ Frequency Converters
- ___ Wave Generators
- ___ Pulse Circuits

Communications*

- ___ Communications Theory*
- ___ Information Theory*
- ___ Radio & Television*
- ___ Telephony & Telegraphy*
- ___ Telemetry*
- ___ Radar*
- ___ Microwaves*
- ___ Recording
- ___ Audio*

Energy Conversion

- ___ Optoelectric
 - ___ Solar Cells
- ___ Thermoelectric
- ___ Fuel Cells*

Power*

- ___ Generation*
- ___ Transmission*
- ___ Rectification*
- ___ Regulation*
- ___ Conversion*
- ___ Switching*
- ___ Amplification

Control*

- ___ Feedback Systems*
- ___ Sampled Data Systems*
- ___ Optimal Systems*
- ___ Remote Control*

Instrumentation*

- ___ Meters*
- ___ Oscilloscopes*
- ___ Nuclear Instruments*
- ___ Industrial Instruments*

Computer Electronics

(see under Computers)

Space Electronics*

(see under Astronautics)

COMPUTERS

Systems

- ___ Digital Computers
 - ___ Design & Organization
 - ___ Digital Arithmetic
 - ___ Error Detection

- ___ Analog Computers
 - ___ Techniques & Systems
 - ___ Subassemblies
 - ___ Mathematics & Programming
- ___ Hybrid Computers
 - ___ Analog-Digital Conversion
- ___ Real-Time Systems
 - ___ Data Acquisition & Transmission
- ___ Special Purpose Computers
 - ___ Digital Differential Analyzers
- ___ Specific Computers

Switching Theory

- ___ Switching Functions
- ___ Automata
- ___ Combinational Networks
- ___ Sequential Networks

Computer Devices & Circuits

- ___ Electron
- ___ Semiconductor
 - ___ Diode
 - ___ Transistor
- ___ Parametron
- ___ Magnetic
- ___ Cryogenic
- ___ Other
- ___ Sequential & Waveforming Circuits
 - ___ Stables & Unstables
 - ___ Counters & Scalars
 - ___ Shift Registers

Digital Storage

- ___ Storage Organization
- ___ Random Access
 - ___ Static Magnetic
 - ___ Static Nonmagnetic
 - ___ Dynamic (Volatile)
- ___ Read-Only
- ___ Sequential Access
- ___ Moving (Removable) Media

Input-Output

Computer Programming

- ___ Basic Principles
- ___ Machine Oriented
- ___ Languages & Systems
 - ___ ALGOL
 - ___ COBOL
- ___ Automatic Programming
- ___ Debugging & Test
- ___ Multiprogramming
- ___ Programming of Files
- ___ Specific Programs (by Subject)

Language & Intelligence

- ___ Formal Languages
- ___ Symbol Manipulation
- ___ Natural Languages
 - ___ Mechanical Translation
- ___ Documentation
- ___ Pattern Recognition
- ___ Speech Recognition
- ___ Bionics
- ___ Self-Organizing Systems
 - ___ Perceptrons
- ___ Artificial Intelligence
- ___ Man and the Machine

Computer Mathematics

- ___ Number Theory
- ___ Numerical Analysis
 - ___ Functional Approximations
 - ___ Computation of Functions
- ___ Algebra
 - ___ Matrices
- ___ Calculus
 - ___ Differential Equations

- ___ Combinatorial Mathematics
- ___ Probability
- ___ Statistics
- ___ Mathematical Programming
 - ___ Dynamic
 - ___ Linear
 - ___ Higher Order
- ___ Queuing Theory
- ___ Theory of Games
- ___ Digital Simulation
- ___ Information Theory
 - ___ Channels
 - ___ Coding Theory
- ___ Signal Analysis
- ___ Communications Theory
 - ___ Digital Data Transmission

Computer Applications

- ___ Electrical
- ___ Mechanical
- ___ Aeronautical
- ___ Space
- ___ Chemical
- ___ Physics
 - ___ Nuclear
- ___ Medical
- ___ Industrial Engineering
- ___ Governmental
- ___ Military
- ___ Transportation
- ___ Business
 - ___ Management Science

ASTRONAUTICS*

Space Vehicle Subsystems*

- ___ Electric Power*
- ___ Guidance & Control*
- ___ Communications*
- ___ Instrumentation & Telemetry*
- ___ Environmental Protection*

Space Vehicles*

- ___ Structures*
- ___ Propulsion*
- ___ Braking*
- ___ Generalized Systems*
- ___ Specific Vehicles*
 - ___ Apollo*
 - ___ Atlas*
 - ___ Explorer*
 - ___ Gemini*
 - ___ Mariner*
 - ___ Mercury*
 - ___ OAO*
 - ___ OGO*
 - ___ Saturn*
 - ___ Sputnik*
 - ___ Syncom
 - ___ Telstar*
 - ___ Thor*
 - ___ etc.*

Space Vehicle Payloads*

- ___ Scientific*
- ___ Commercial*
- ___ Military*

Manned Flight*

- ___ Astronaut's Supplies*
- ___ Manned Flight Factors*

Ground Support Complexes*

- ___ Preflight*
- ___ Inflight*
- ___ Flight Termination*

Space Flight Operations*

- ___ Terrestrial*
- ___ Earth Satellite*
- ___ Lunar*
- ___ Solar System*

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